



Lab 5 - ELECTRICAL MAINTENANCE



The laboratory includes kits and accessories to build, repair and test three phase AC motors and transformers. They are suitable to be used in basic electricity courses as well as in vocational courses for maintenance and repair technicians.

The electrical characteristics and assembling procedures are explained in detail in dedicated instruction manuals based fundamentally on photographs taken during actual factory assembling. A section includes commercial apparatus of latest design. Included are pressing iron, desk fan, refrigerator and washing machine, all modified for teaching purposes.

TRAINING STATIONS LIST

5.1	TRANSFORMERS CONSTRUCTION AND REPAIR
5.2	MOTORS CONSTRUCTION AND REPAIR
5.3	TRANSFORMERS AND MOTORS TESTING STATION
5.4	HOUSEHOLD APPLIANCES MAINTENANCE

Equipment List

LAB N°	Item N°	TITLE	CODE	Total Qty	Stud WS 1	Stud WS 2	Stud WS 3	Stud WS 4	Stud WS 5	Stud WS 6	Stud WS 7	Stud WS 8	Teach WS	LAB
5		ELECTRICAL MAINTENANCE LABORATORY												
		For 16 to 32 students working at the same time. See complete catalogue to see product description and other details.												
		MOTORS & TRANSFORMERS MAINTENANCE												
		HOUSEHOLD APPLIANCES MAINTENANCE												
5 1		TRANSFORMERS CONSTRUCTION AND REPAIR BASIC CONFIGURATION			A3TMB									
5	1	1 TRANSFORMERS KIT	A3120 M	4	1	1			1	1				
5	1	2 CONSUMABLE FOR TRANSFORMER KIT	A3120 COM	2										2
5	1	3 CD FOR TRANSFORMER KITS	A3120 CD	1									1	
5	1	4 TOOLS FOR MOTORS & TRANSFORMERS WINDING	A3120 TS	4	1	1			1	1				
5	1	5 LAYER WINDINGS HAND OPERATED WINDER	A3310-2	4	1	1			1	1				
5	1	6 DEMOUNTABLE TRANSFORMER	A4110D	2										2
5 2		MOTORS CONSTRUCTION AND REPAIR BASIC CONFIGURATION			A3MMB									
5	2	1 MOTORS ASSEMBLY KIT (medium power)	A3110M	4			1	1		1	1			
5	2	2 STATOR SUPPORT	A3340	4			1	1		1	1			
5	2	3 ROTOR SUPPORT	A3343	4			1	1		1	1			
5	2	4 CONSUMABLE FOR MOTOR KIT	A3110 COM	2										2
5	2	5 CD FOR MOTOR KITS	A3110 CD	1									1	
5	2	6 TOOLS FOR MOTORS & TRANSFORMERS WINDING	A3120 TS	4			1	1		1	1			
5	2	7 COIL WINDER HAND OPERATED	A3310B	4			1	1		1	1			
5	2	8 STATOR & ROTOR TESTER	A3470	2										2
5 3		HOUSEHOLD APPLIANCES MAINTENANCE BASIC			C51B									
5	3	1 CLOTHES IRON DEMONSTRATOR	A5130	1										1
5	3	2 DESK FAN DEMONSTRATOR	A5140	1										1
5	3	3 REFRIGERATOR TRAINER	A5180AR	1										1
5	3	4 WASHING MACHINE TRAINER	A5180AW	1										1
5 4		TRANSFORMERS CONSTRUCTION AND REPAIR EXPANSION CONFIGURATION			A3TMU									
5	4	1 ELECTRICAL COIL WINDER FOR TRANSFORMERS	A3330-1 AL1	1										1
5	4	2 EDUCATIONAL BOARDS SET	A3120 EB	4	1	1			1	1				
5 5		MOTORS CONSTRUCTION AND REPAIR EXPANSION CONFIGURATION			A3MMU									
5	5	1 ELECTRICAL MOTOR STATOR-COILS WINDER	A3325 GM500	1										1
5	5	2 CUTTER	A3350	1										1
5	5	3 EDUCATIONAL BOARDS SET	A3110 EB	4			1	1		1	1			
5	5	4 SET OF CUT-AWAY ELECTRICAL MACHINES	A42C	1										1
5 2		TRANSFORMERS AND MOTORS TESTING STATION												
5	2	2 UNIVERSAL POWER SUPPLY	A0245	1										1
5	2	12 BRAKE GENERATOR	A4430M	1										1
5	2	3 RESISTIVE LOAD	A4510M	1										1
5	2	4 CAPACITIVE LOAD	A4520M	1										1
5	2	5 INDUCTIVE LOAD	A4530M	1										1
5	2	13 TACHOMETER	A4725 DT 2234B	1										1
5	2	15 DIGITAL ELECTRIC POWER MEASURING MODULE	A4750D	1										1
5	2	14 COUPLING BASE	A4840S	1										1
5	2	16 CABLES SET FOR ELECTRICAL MACHINES	A4890	1										1
5	2	8 DIGITAL INSULATION TESTER	DIT	1										1
5	2	9 DIGITAL CLAMP METER	DCM	2										2
5	2	10 DIGITAL MULTIMETER	DM Y68	2										2
5	2	11 ANALOGUE MULTIMETER	A12 AM	2										2
5 2		HOUSEHOLD APPLIANCES MAINTENANCE UPGRADE			C51U									
5	2	1 STEREO HI-FI AMPLIFIER TRAINER	B4410B	2	1				1					
5	2	3 AM/FM RADIO TRAINER	B4415	2		1				1				
5	2	5 CD & DVD TRAINER	B4425	2			1			1				
5	2	6 PC MAINTENANCE TRAINER		2				1				1		
5	2	7 LASER PRINTER TRAINER	B5145 C5145	2				1				1		
		FURNITURE, METERS, POWER SUPPLIES & ACCESSORIES												
		GENERAL USE FURNITURE												
1	1	1 WORK TABLE	F1110A	8	1	1	1	1	1	1	1	1		
1	1	2 MOBILE LOWER CABINET	F11 4146	8	1	1	1	1	1	1	1	1		
1	1	3 STUDENT STOOL	F11 1718	24	3	3	3	3	3	3	3	3		
1	1	4 TEACHER'S DESK	F11 2126	1									1	
1	1	5 TEACHER'S CHAIR	F11 5000	1									1	
1	1	6 CABINET FOR TOOLS & INSTRUMENTS	F11 3310	4										4
1	1	7 TROLLEY	F1151 R1	4										4
1		GENERAL USE MEASURING INSTRUMENTS, POWER SUPPLIES & ACCESSORIES												
1	2	1 ANALOGUE MULTIMETER	AM 7080	4										4
1	2	2 DIGITAL MULTIMETER	DM Y68	4										4
1	2	3 ANALOGUE ELECTRICAL METERS SET	A11 AM	1										1
1	2	4 DIGITAL ELECTRIC POWER MEASURING MODULE	A4750D	1										1
1	2	5 CABLES SET	A4890	8										8
2	1	7 DIGITAL CLAMP METER	DCM EM201	1										1
2	1	8 DIGITAL INSULATION TESTER	DIT VC60B	1										1
1	2	9 UNIVERSAL POWER SUPPLY	A0245	1										1
1	2	10 AC DC POWER SUPPLY	C12 PS	2										2